

1 TETSUYA JOE NOMURA  
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5 *Plaintiff, Pro Se*

**FILED**

AUG 26 2011

RICHARD W. WIEKING  
CLERK, U.S. DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
SAN JOSE

6 **UNITED STATES DISTRICT COURT**  
7 **FOR THE NORTHERN DISTRICT OF CALIFORNIA**  
8 **SAN JOSE DIVISION**

9 Tetsuya Joe Nomura,

10 Plaintiff,

11 vs.

12 AMAZON.COM, INC.,

13 Defendant.

Case No.: C11-01210 HRL

**AMENDED COMPLAINT FOR  
PATENT INFRINGEMENT**

**DEMAND FOR JURY TRIAL**

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15 Plaintiff, Tetsuya Joe Nomura ("*Nomura*"), for his complaint against Defendant,  
16 Amazon.com ("*Amazon*"), alleges as follows:

17 **PARTIES**

18 1. Plaintiff, Tetsuya Joe Nomura is an inventor and retired engineer whose principle  
19 address is 3288 Pierce Street, Suite C129, Richmond, California 94804-5952.

20 2. Upon information and belief, and on that basis alleges, that Defendant  
21 Amazon.com, Inc. ("*Amazon*") is a corporation duly organized and existing under the laws as  
22 first incorporated in 1994 in the state of Washington, and then under the laws as reincorporated  
23 in 1996 in the state of Delaware, with its principal place of business (executive offices) at 410  
24 Terry Avenue North, Seattle, Washington 98109-5210. *Amazon* does business in the Northern  
25 District of California.

1-copy  
Submitted

No  
Signature

**JURISDICTION AND VENUE**

3. This is an action for patent infringement arising under the patent laws of the United States, Titles 35, United States Code. Jurisdiction as to these claims is conferred on this Court by 28 U.S.C. § 1331 and § 1338(a) as well as Article I, Sec. 8 Cl. 8.

4. Venue is proper in the Northern District of California under 28 U.S.C. § 1391 and § 1400(b).

5. This Court has personal jurisdiction over *Amazon*. *Amazon* has conducted and does conduct business within the State of California and within this judicial district.

6. *Amazon* --directly or through intermediaries-- makes, distributes, offers for sale or license, sells or licenses, and advertises its products and services in the United States, the State of California, and the Northern District of California.

**INTRADISTRICT ASSIGNMENT**

7. This is an Intellectual Property Action to be assigned on a district-wide basis pursuant to Civil Local Rule 3-2(c).

**BACKGROUND**

8. Plaintiff applied for United States patent registration on December 15, 2000. On August 07, 2007, United States Patent No. 7,254,622 ("*the '622 patent*") was duly and legally issued for Plaintiff's invention entitled "VIDEO-ON-DEMAND SYSTEM." *Nomura* was assigned *the '622 patent* and continues to hold all rights and interest in *the '622 patent*. A true and correct copy of *the '622 patent* (including the official "Certificate of Correction") is attached hereto as EXHIBIT 01.

9. Also, a modular schematic diagram ("*Diagram*") drawing from *the '622 patent* has been enhanced to show the system architectural flow of video data. Said enhanced *Diagram* is entitled, "Video-on-demand system", "Distribution Layer Modules". *Diagram* is attached hereto as EXHIBIT 02.

10. Said *Diagram* and its meaning are described with detail in *the '622 patent*. This factual information shows how the Plaintiff's Video-On-Demand ("*VoD*") remote access

1 contents server(s) --shown in *Diagram* as boxes 113 and 114 respectively-- connect(s) to the  
2 Internet Service Provider(s) ("ISP(s)") --shown in *Diagram* as boxes 115 and 116 respectively--  
3 through the internet to users, viewers, and others --shown in *Diagram* as boxes 125 and 137  
4 respectively. This information, collectively, clearly identifies the process, method and manner  
5 by which the Defendant is infringing upon said Plaintiff's patent.

6 11. Additional exhibits attached hereto --EXHIBIT 03 and 04 respectively-- show  
7 how the Defendant is infringing *the '622 patent* by using the technology(ies), process(es),  
8 business model(s) and method(s) as described in and protected by Plaintiff's patent.

9 12. Wikipedia.com ("*Wikipedia*") currently describes *Amazon* as follows in this  
10 excerpt, "Amazon.com, Inc. (NASDAQ: AMZN) is a US-based multinational electronic  
11 commerce company. Headquartered in Seattle, Washington, it is the world's largest online  
12 retailer, with nearly three times the Internet sales revenue of the runner up, Staples, Inc., as of  
13 January 2010." See snapshot of <https://secure.wikimedia.org/wikipedia/en/wiki/Amazon.com>  
14 herein attached as EXHIBIT 05.

15 13. *Wikipedia*'s description of *Amazon*, as well as that from other credible sources,  
16 clearly confirms that *VoD* is of paramount importance to *Amazon's* business model – including,  
17 but not limited to, video rentals and sales via remote server downloads, and video-based  
18 advertisements – also distributed to users and viewers via remote contents server(s) – throughout  
19 the United States as well as *Amazon's* international business operations throughout the world.

20 **INFRINGEMENT OF U.S. PATENT NO. 7,254,622**

21 14. On August 07, 2007, United States Patent No. 7,254,622 ("*the '622 patent*") was  
22 duly and legally issued for an invention entitled "VIDEO-ON-DEMAND SYSTEM." *Nomura*  
23 was assigned *the '622 patent* and continues to hold all rights and interest in *the '622 patent*. A  
24 true and correct copy of *the '622 patent* is attached hereto as EXHIBIT 01 (including the official  
25 "Certificate of Correction").

15. Defendant *Amazon* has infringed and continues to infringe one or more claims of the '622 patent. *Amazon* is liable for infringing the '622 patent under 35 U.S.C. § 271 by making, using, and licensing websites, hardware, and software to upload, store, and distribute – from Remote Access Contents Server(s) – video data that is delivered – via the internet – to users, viewers, and others as already claimed in the '622 patent.

#### **JURY DEMAND**

16. Pursuant to Rule 38(b) of the Federal Rules of Civil Procedure, *Plaintiff* respectfully requests a trial by jury on all issues properly triable by jury.

#### **PRAYER FOR RELIEF**

WHEREFORE, Plaintiff Tetsuya Joe Nomura requests entry of judgment in his favor and against Defendant as follows:

- a) Declaration that Defendant Amazon.com has infringed United States Patent No. 7,254,622.
- b) Awarding the damages arising out of Defendant Amazon.com's infringement of United States Patent No. 7,254,622 to Plaintiff, together with prejudgment and postjudgment interest, in an amount according and respective to proof;
- c) Permanently enjoining Defendant and their respective officers, agents, employees, and those acting in privity with them, from further infringement, including contributory infringement and/or inducing infringement United States Patent No. 7,254,622 , or in the alternative, awarding royalty(ies) for postjudgment infringement;
- d) Awarding litigation fees pursuant to 35 U.S.C. § 285 or as otherwise permitted by law; and,
- e) Awarding such other costs and further relief as the Jury and/or Court may deem just and proper.

Respectfully submitted,

Dated this 26<sup>th</sup> day of August, 2011

By: \_\_\_\_\_  
Tetsuya Joe Nomura,  
Pro Se Plaintiff

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# EXHIBIT 01

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(12) **United States Patent**  
**Nomura et al.**

(10) **Patent No.:** **US 7,254,622 B2**(45) **Date of Patent:** **Aug. 7, 2007**(54) **VIDEO-ON-DEMAND SYSTEM**

(76) Inventors: **Tetsuya Nomura**, 827 Pacific Ave.  
#212, San Francisco, CA (US) 94133;  
**Tommy Sun**, 827 Pacific Ave. #212,  
San Francisco, CA (US) 94133

Primary Examiner—David Wiley  
Assistant Examiner—J. Bret Dennison  
(74) Attorney, Agent, or Firm—James J. Leary

(57) **ABSTRACT**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 959 days.

(21) Appl. No.: **09/738,425**(22) Filed: **Dec. 15, 2000**(65) **Prior Publication Data**

US 2002/0078176 A1 Jun. 20, 2002

(51) Int. Cl.  
**G06F 15/16** (2006.01)  
**H04N 7/173** (2006.01)

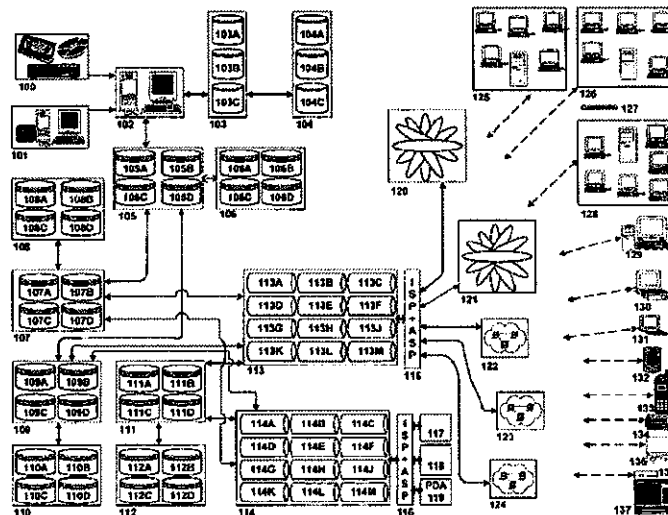
(52) U.S. Cl. **709/219; 725/98**

(58) **Field of Classification Search** **709/217,**  
**709/219, 230, 231; 725/98**  
See application file for complete search history.

(56) **References Cited****U.S. PATENT DOCUMENTS**

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\* cited by examiner

**12 Claims, 1 Drawing Sheet**

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# 1

## VIDEO-ON-DEMAND SYSTEM

### FIELD OF THE INVENTION

The present invention relates to a video-on-demand system that provides movies, video programs and other prerecorded materials to a remote user. In particular, it relates to a high speed, reliable video-on-demand system with data corruption resistance for storing, selecting, downloading and playing prerecorded video materials.

### BACKGROUND OF THE INVENTION

Home viewing of prerecorded video programs and movies has become a major form of entertainment in this country and throughout much of the world. Technologies such as videocassette players and videodisk players, e.g. digital video disk (DVD) and laser disk players, allow users to view prerecorded video programs and movies at home on their own television sets. Viewing prerecorded video programs has many advantages over watching programs and movies on broadcast television. Viewers can choose their own programs and movies and watch them at a time of their own choosing. Video players also allow users to stop, pause, replay, slow motion replay and fast forward the program at any time while viewing. With broadcast television on the other hand, viewers have a limited selection of programs and movies, which are shown on a fixed schedule. Pay-per-view television offered by cable television and satellite television broadcasting companies has increased the selection of programs and movies available and the choices of viewing times, but the practical limitations of broadcast bandwidth restricts pay-per-view television to a limited selection and fixed schedules.

The popularity of prerecorded video programs and movies as home entertainment has given rise to a large infrastructure for production and commercial distribution of prerecorded video materials. Video stores that rent and/or sell prerecorded movies and other video programs on videocassettes and/or video disks have become ubiquitous. Video rental stores offer a broad selection of movies that users can take home and view at any time during the rental period, which is generally from one to several days. However, video rental stores present a number of inconveniences for the user. The user must travel to the video rental store to select and bring home a video to watch, which is inconvenient and time consuming. Store hours may be limited. The selection of movies available can be limited by the number of copies on hand. Popular movies may not be available if the number of copies on hand is not sufficient to meet the demand by customers. After viewing it, the user must travel to the video rental store again to return the video. Late fees and penalties for damage or loss of videos can be a significant drawback for some users. Broadcast television, for all of its limitations, has the advantage that viewers do not have to leave their homes because the programming is transmitted directly to their television sets.

This video distribution system is also a very inefficient use of resources. Vast quantities of video recording media, such as videocassettes and videodisks, must be manufactured and recorded to supply all of the video stores. Transportation costs, storage costs and the cost of retail space and personnel all add to the expense of video distribution.

It would be desirable to provide a system for distribution of movies and other video programs for home viewing that has the advantages of broadcast television and of the current video distribution system, while avoiding many of the

disadvantages of both. To this end, it is desirable to provide a system that allows viewers to select and buy and/or rent movies and other video programming content without having to leave their homes. The system should transmit the video programming content directly to the viewer's home or other selected locations. The video programming content should be provided in a format that allows the viewer to play the movie or video at any desired time and allows the viewer to stop, pause, replay, slow motion replay and fast forward the program at any time while viewing. The system should provide a broad selection of movies and other video programs without the costs and inefficiencies associated with the current video distribution system that relies on multiple copies of videos distributed through a myriad of local video rental stores. The system should allow multiple users to view a movie or video simultaneously without the need to keep an inventory of multiple copies.

Video-on-demand systems have been suggested as an alternative to the current video distribution system. To date, however, because of technical limitations such systems have not been successfully commercialized, except on a very small scale. For example, centralized video-on-demand systems are available for hotels and similar applications. Examples of such systems are described in U.S. Pat. No. 6,009,465 granted to Decker, et. al. for Entertainment and information systems and related management networks for a remote video delivery system, and U.S. reissue Pat. No. RE34,611 issued to Fenwick for Video selection and distribution system. These systems can only handle a small number of viewers at any one time because they are limited by the number of video players in the system and the number of copies of any particular video on hand.

A convergence of technologies from the audiovisual, computer and telecommunications fields now makes it possible to create a practical large-scale centralized video-on-demand system for selecting, downloading and playing prerecorded materials. To be commercially successful, such a video-on-demand system must be high speed, reliable, robust and fault tolerant and it must be configured to resist data corruption.

### SUMMARY OF THE INVENTION

In keeping with the foregoing discussion, the present invention takes the form of a video-on-demand system for storing, selecting, downloading and playing prerecorded video materials. The video-on-demand system provides capabilities of efficient commercial distribution for renting and/or selling of movies, video programs and other forms of electronic entertainment materials, such as video games, music videos and video books, and electronic data. The system can also be used to provide video content for web sites, such as video home pages, and for distribution of video messages or video mail. The system is configured to capture video data of movies and other video programs from various storage media into a high speed, rapidly accessible electronic data storage medium. Data input stations are provided to upload original video data of movies or other video programs from their original storage medium, for example from videotapes, videocassettes, videodisks or film, or from electronic data format on transferable storage media or over a telecommunications line, such as a telephone line, multimedia cable, fiberoptic cable, wireless telecommunications, etc.

A video data capture computer converts the original video data files into a preferred video data storage format and stores the video data files in a first generation video data

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storage unit. If desired, the video data files may be stored in a compressed data storage format. The first generation video data storage unit includes data libraries containing the latest on-line news data, rental item data and selling item data. A back-up first generation video data storage unit is provided as security against data loss or corruption. The video data files are sorted by categories of the movies and other video programs and are classified in indexed master files stored on a second generation video data storage unit. A back-up second generation video data storage unit is provided as security against data loss or corruption.

The system preferably includes capabilities of converting the video data files to any known video display format for worldwide distribution and viewing. For example, NTSC, PAL, and/or HDTV versions of the video data files can be created and stored in separate data storage units as appropriate for the markets to be served by the system. Preferably, the system also includes back-up data storage units for these video data files as security against data loss or corruption.

Customer access to the video data files is provided by one or more remotely accessible computer servers through an Internet Service Provider (ISP) and/or an Application Service Provider (ASP) interface. Access to the system is provided via the Internet and/or World Wide Web (WWW), telephone lines, digital subscriber lines (DSL), cable television lines, multimedia cable, and fiberoptic cable connections, and wireless access is provided through a wireless Internet Service Provider (ISP) and/or an Application Service Provider (ASP) interface. The computer servers are programmed with file handling, order processing and accounting and billing software. The system also includes a data storage unit for an accounting and billing record database and a back-up data storage unit.

When the system receives a customer request, the computer server through which the request is received accesses the video data file in the appropriate data storage unit and creates a temporary video data file by transferring the video data over a high speed data link. The video data file is then downloaded to the customer via the appropriate ISP/ASP interface. The video data file is downloaded at high speed and stored on the customer's video player device for viewing at a later time. The downloading of video data files to the customer is continuously monitored by error detection and correction software.

The customer can contact and interact with the video-on-demand system in a number of different ways, such as through a website connection on the Internet or the World Wide Web, through a cable television subscriber network, a local area network (LAN) or a wide area network (WAN) connected via an Internet connection or a direct connection via cable or telephone lines or through a wireless telecommunications system that use satellites and/or earthstations to receive and transmit data, such as a satellite television network, a cellular telephone network or a pager or wireless personal digital assistant (PDA) system connection. The system can also be implemented through a PBX network or a peer-to-peer network, which may or may not be connected to the Internet. The connection between the customer and the video-on-demand system can be asymmetrical.

The video data files can be downloaded, stored and viewed in a number of different ways by the customer. For example, the video data files can be downloaded, stored and viewed on a desktop computer, a laptop computer, a palmtop computer or other mobile computer. The movie or video program can be viewed directly on the computer monitor or it can be recorded on a transferable storage medium to be viewed on a separate video playing device. Miniature

mobile or wearable computers or video playback devices with head mounted displays provide the ultimate in portability for video viewing. The video data files can also be downloaded and stored on a set-top data storage device that is connected to a television set or monitor for viewing. The video data files can also be downloaded, stored and viewed on personal digital assistants, cellular telephones and pagers with video capabilities. Video data files and/or video game software can be downloaded, stored and viewed on a video game device.

In operation, a customer initiates a transaction by contacting the video-on-demand system through one of the various means described above. The customer can browse, search and select one or more movies or other video programs to rent or purchase. Descriptions, reviews, advertisements, clips and trailers of the video materials may be provided to help customers make their selections. The customer selects whether he or she wishes to purchase or rent the video selections and, if appropriate, specifies a time period for the rental. The computer server completes the billing and accounting portion of the transaction electronically over the Internet using a secure Internet payment protocol.

Purchased and/or rented video data files will preferably be downloaded in a copy protected format to prevent unauthorized reproduction or resale of the video data files by the customer. In addition, rented video data files will preferably be downloaded in a time sensitive format that will delete the file or make it inaccessible or unviewable after the expiration of the specified rental period and/or after a specified number of viewings.

The video-on-demand system of the present invention is configured to be high speed, reliable, robust and fault tolerant and to resist data corruption. Preferably, the back-up data storage units, also known as mirror storage units, at each level of the system are housed at separate location that is protected from natural disaster, electrical power black-out, accidents and so forth for security against data loss. The multilayered architecture of the system protects the original video data files from data corruption. If the video data files at any level of the system are ever subjected to data loss or data corruption, the video data files can be refreshed from the back-up video data files on the same level of the system or recreated from video data files or back-up files on a higher level of the system. The transfer and downloading of video data files is continuously monitored by error detection and correction software. If the software detects an error in the video data files, the transfer is stopped and started over from the last point where the video data file was known to be not corrupted so that the transfer does not have to be started over from the beginning. This saves time and allows the system to efficiently serve more customers. If repeated errors are detected, the video data file can be quickly refreshed from a data storage unit at a higher level of the system.

These and other advantages of the video-on-demand system of the present invention will be evident to those skilled in the art upon reading and understanding the following description along with the accompanying drawing figure.

#### BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 shows a schematic representation of the video-on-demand system of the present invention.

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DETAILED DESCRIPTION OF THE  
INVENTION

FIG. 1 shows a schematic representation of the video-on-demand system of the present invention for storing, selecting, downloading and playing prerecorded video materials. The video-on-demand system provides capabilities of efficient commercial distribution for renting and/or selling of movies and other video programs. The system is also useful for providing publicly accessible video libraries with video-on-demand capabilities. The system can also be used for distribution of other forms of electronic entertainment materials, such as video games, music videos and video books, and electronic data. The system can also be used to provide video content for web sites, such as video home pages, and for distribution of video messages or video mail.

The video-on-demand system is configured to capture video data of movies and other video programs from various storage media into a high speed, rapidly accessible electronic data storage medium. A first data input station 100 allows original video data of movies or other video programs to be entered into the system from their original storage medium, for example from videotapes, videocassettes or videodisks. The first data input station 100 includes at least one video format reading device such as a videotape, videocassette or videodisk player for reading the video data into the system. Preferably, the video format reading device operates at high-speed for efficient input of video data. The first data input station 100 may also have the capability of converting audiovisual information from film into video data usable by the system. The original storage media may be archived in case any of the video data needs to be restored at a later date.

A second data input station 101 allows original video data of movies or other video programs to be entered into the system from electronic data format on transferable storage media or over a telecommunications line, such as a telephone line, multimedia cable, fiberoptic cable, wireless telecommunications, etc. The second data input station 101 may include a reading device, a high speed telecommunications interface and/or a computer for entering the video data from electronic data format into the system.

The original video data from the first data input station 100 and the second data input station 101 enter the system through a video data capture computer 102. The video data capture computer 102 converts the original video data files into the preferred video data storage format and stores the video data files in the first generation video data storage unit 103. If desired, the video data capture computer 102 may store the video data files in a compressed data storage format. In a particularly preferred embodiment, the first generation video data storage unit 103 is configured to include data libraries containing the latest on-line news data 103A, rental item data 103B and selling item data 103C. The data libraries 103A, 103B, 103C may be housed in physically separate data storage units or they may be housed in one multipurpose data storage unit. The first generation video data storage unit 103 can be implemented using virtually any high speed, rapidly accessible electronic data storage medium, such as Winchester disk drive technology, hard disk drive technology, magnetic tape storage technology, solid state data storage technology, etc. Preferably, the first generation video data storage unit 103 uses a nonvolatile memory data storage medium for security of the data stored.

Preferably, the system also includes a back-up first generation video data storage unit 104, containing back-up data

libraries 104A, 104B, 104C, housed at another location that is protected from natural disaster, electrical power black out, accidents and so forth for security against data loss. Alternatively or in addition, a back-up first generation video data storage unit 104 may be housed at the same location as the first generation video data storage unit 103, but using a separate electrical power supply for security against data loss. If the first generation video data storage unit 103 is ever subjected to data loss or data corruption, the data libraries 103A, 103B, 103C can be recreated from the back-up data libraries 104A, 104B, 104C on the back-up first generation video data storage unit 104.

The video data files from the first generation video data storage unit 103 are also stored on a second generation video data storage unit 105. The video data files in the second generation video data storage unit 105 are sorted by categories of the movies and other video programs and are classified in indexed master files 105A, 105B, 105C, 105D, etc. The second generation video data storage unit 105 can be implemented using virtually any high speed, rapidly accessible electronic data storage medium. Preferably, the system also includes a back-up second generation video data storage unit 106, containing back-up master files 106A, 106B, 106C, 106D, etc. housed at another location for security against data loss.

The system preferably includes capabilities of converting the video data files to any known video display format for worldwide distribution and viewing. For example, in a preferred embodiment, the system includes a data storage unit 107 with a North American version of the video data files converted to National Television Standards Committee (NTSC) format for the United States, Canada and Mexico and a data storage unit 109 with a Phase Alternation Line (PAL) version of the video data files for Europe, Central and South America, and some parts of Asia. A data storage unit may also be provided for a version of the video data files in high definition television (HDTV) format or other formats now known or to be devised in the future. Preferably, the system also includes back-up data storage units 108, 110 housed at another location for security against data loss from data storage units 107, 109.

The system also includes a data storage unit 111 for an accounting and billing record database and a back-up data storage unit 112 housed at another location for security against data loss from data storage unit 111.

Customer access to the video data of movies and other video programs is provided by a remotely accessible computer server 113 through an Internet Service Provider (ISP) and/or an Application Service Provider (ASP) interface 116. Preferably, the remotely accessible computer 113 provides customer access via the Internet and/or World Wide Web (WWW), as well as through telephone lines, digital subscriber lines (DSL), cable television lines, multimedia cable, and fiberoptic cable connections. Wireless customer access to the video data of movies and other video programs is also provided by a second remotely accessible computer server 114 through a wireless Internet Service Provider (ISP) and/or an Application Service Provider (ASP) interface 117.

When the system receives a customer request, the computer server 113, 114 through which the request is received accesses the video data file in the appropriate data storage unit 105, 107, 109 and creates a temporary video data file 113A, 113B, ..., 113M, 114A, 114B, ..., 114M by transferring the video data over a high speed data link. The video data file is then downloaded to the customer via the appropriate ISP/ASP interface 115, 116. A video data file for a full length feature film can be downloaded in approximately six min-

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utes using present data transmission technology. Improvements in the download speed can be expected in the near future with advances in data transmission technology and data compression/decompression protocols. The customer can store and view the video data files of the selected movies at a time of his or her own choosing.

The temporary video data files 113A, 113B . . . 113M, 114A, 114B . . . 114M may be overwritten with new temporary video data files by the computer servers 113, 114 when new requests are received for other movies. In a particularly preferred embodiment of the system, the computer servers 113, 114 may preserve temporary video data files of popular or frequently requested movies in temporary memory storage for repeated downloads without having to access and transfer the video data files from the data storage units 107, 109. For extremely popular movies, more than one temporary video data file can be created to allow simultaneous downloading to more than one customer. These two strategies improve the response time of the system and allows it to efficiently serve more customers. When a particular movie wanes in popularity, the temporary video data file can be overwritten with a new temporary video data file.

The downloading of video data files to the customer is continuously monitored by error detection and correction software. If the software detects an error in downloading the video data files, the downloading is stopped and started over from the last point where the video data file was known to be not corrupted. Thus, the download does not have to be started over completely from the beginning. This saves time and allows the system to efficiently serve more customers. If repeated errors are detected, the temporary video data file can be quickly refreshed from the data storage unit 107, 109 by the computer server 113, 114.

The customer can contact and interact with the video-on-demand system in a number of different ways. It is anticipated that one of the most popular ways for customers to connect with the system will be through a website connection on the Internet or the World Wide Web 122. Other customers may choose to connect with the system via their cable television subscriber network 120. Additional and/or back-up connections via cable 121 or the Internet 123, 124 can be provided as a failsafe and/or to be added at times of peak demand. Customers who are connected to a local area network (LAN) 125, 126 or a wide area network (WAN) 128 can connect to the system through the LAN or WAN via an Internet router connection 127 or a direct connection via cable or telephone lines. Wireless connections to the system can be made via a wireless telecommunications systems 117 that use satellites and/or earthstations to receive and transmit data. Wireless connections to the system can also be made via a cellular telephone network 118 or a pager or wireless personal digital assistant (PDA) system connection 119.

The connection between the customer and the video-on-demand system can be asymmetrical. For example, the customer can contact the system via a telephone line connection or a wireless personal digital assistant to select and order a movie or other video program and the system can download the video data file via a high speed data connection such as a cable television network, DSL connection or satellite data connection.

The video data files can be stored and viewed in a number of different ways by the customer. The video data files can be downloaded in a directly readable format or they can be downloaded in a compressed data format. The video data files can be downloaded via the Internet or other connection to a desktop computer 129. With appropriate software, the

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video data file can be decompressed and the movie or video program can be viewed directly on the computer monitor. Alternatively, the computer 129 can record the video data file onto a transferable storage medium, such as a CD ROM or DVD, that can be played on a separate video playing device, such as a DVD player connected to a television set or monitor.

The video data files can also be downloaded via a wired or wireless connection to a laptop computer 130 or palmtop computer 131. The movie or video program may be integrated directly on the computer monitor or it can be recorded on a transferable storage medium to be viewed on a separate video playing device.

The video data files can be downloaded and stored on a set-top data storage device 136 that is connected to a television set or monitor 137. The data storage device 136 may be a dedicated, single-purpose device for storing and playing back downloaded movies and video programs. Alternatively, the data storage device 136 may be integrated with other audiovisual components, such as a video playing device, like a DVD player, and/or a television recording device, like a videocassette recorder (VCR) or more preferably a hard disk storage technology based recording device, such as those currently available under the brand names TiVo and REPLAY TV. Such an integrated device is distinguished from these existing products by its ability to receive high speed downloads of video data files, and, if necessary, to decompress the data files, for later viewing at normal speed.

It is anticipated that as the capabilities of such technologies expand, the video data files will also be able to be downloaded, stored and viewed on personal digital assistants 132, cellular telephones 133 and pagers 134. Video data files and/or video game software can be downloaded, stored and viewed on a video game device 135, which may be a stand-alone device or may be connected to a computer, monitor or television set.

The video-on-demand system is prepared for use by uploading video data files of movies, video programs and other prerecorded materials from their original storage media to the video data capture computer 102 using the first and second data input stations 100, 101. The video data capture computer 102 converts the original video data files into the preferred video data storage format and stores the video data files in the first generation video data storage unit 103. The video data files from the first generation video data storage unit 103 are sorted by categories and stored on the second generation video data storage unit 105 in indexed master files 105A, 105B, 105C, 105D, etc. NTSC, PAL, and/or HDTV versions of the video data files are created and stored in data storage units 107, 109, as appropriate for the markets to be served by the system. The video data files in data storage units 107, 109 may be subsets of the complete video data files based on the expected popularity of particular movies and other forms of entertainment in the various markets to be served. At each step of the process, back-up files are created for security against data loss or corruption. Each of the back-up files may be created simultaneously with, or in a subsequent operation to, creation of the primary video data files. The video data files on each level can be updated or expanded at any time, for example for the addition of newly released movies to the collection. The computer servers 113, 114 are programmed with file handling, order processing and accounting and billing software and the system is connected to the various access networks through the ISP/ASP interfaces 115, 116 to make it ready for operation.



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In operation, a customer initiates a transaction by contacting the video-on-demand system through one of the various means described above. In one particularly preferred method, the customer contacts the remotely accessible computer servers 113, 114 of the system through the ISP/ASP interfaces 115, 116 via a website accessible on the Internet or the World Wide Web. The website presents the customer with a graphical user interface (GUI) for selecting, ordering and downloading various video materials. The website can be contacted using any device that is Internet Protocol enabled. In an alternate method, the customer can contact the system using a voice activated user interface over a telephone or cellular telephone network using voice commands to select and order video materials. For computers or telecommunications devices with both capabilities, a combined graphical and voice activated user interface provides additional flexibility and convenience to the customer.

If this is a customer's first transaction on the video-on-demand system, the website or other user interface will take the customer through a registration procedure. New customers will be asked for identification and billing information and will be queried about the preferred viewing format and download pathway for video materials, depending on their hardware and software configuration. A unique account number and a password will be assigned to or selected by the customer. If desired, the account number may include significant identifying information, such as a unique geographical identifier. In an exemplary embodiment, a unique account number may be created using the customer's telephone number, a geographical code, which may be a postal code, such as an extended zip code, or the three digit identification code for the nearest airport, and three trailing digits.

Return customers can sign in and enter the website or user interface without registration by giving their account number and password or other identifying information. The sign-in step can be handled automatically by the customer's computer or other connecting device if it is programmed to do so. After signing in, return customers can update identification, billing, viewing format and download pathway information at any time. Once connected to the website or user interface, the customer can browse, search and select one or more movies or other video programs to rent or purchase. Descriptions, reviews, advertisements, clips and trailers of the video materials may be provided to help customers make their selections. Customers can create search agents to help them identify and select movies and video programs that meet certain desired characteristics and/or based on previous selections and the customer's evaluation of them.

The customer selects whether he or she wishes to purchase or rent the video selections and, if appropriate, specifies a time period for the rental. The computer server 113, 114 completes the billing and accounting portion of the transaction and stores the account information in the accounting and billing record database on data storage unit 111. Preferably, billing and payment for the transaction are handled electronically over the Internet using a secure Internet payment protocol.

The selected video data files may be downloaded to the customer immediately or at a later specified time. At the specified time, the computer server 113, 114 through which the request was received accesses the video data file in the appropriate data storage unit 105, 107, 109 and creates a temporary video data file 113A, 113B . . . 113M, 114A, 114B . . . 114M by transferring the video data over a high speed data link to the computer server 113, 114 appropriate

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for the selected download method. The transfer of video data files over the high speed data link is continuously monitored by error detection and correction software. The video data file is then downloaded to the customer via the appropriate ISP/ASP interface 115, 116. The video data file is downloaded at high speed and stored on the customer's video player device for viewing at a time of the customer's own choosing. The video player device allows the viewer to stop, pause, replay, slow motion replay and fast forward the video program at any time while viewing. The downloading of video data files to the customer is continuously monitored by error detection and correction software.

As mentioned above, the connection between the customer and the video-on-demand system can be asymmetrical. If the customer contacts the system to place an order through a different device than the device used for storing and viewing the video data files, the order processing and the video data file downloading may be handled on different computer servers 113, 114 and/or over different ISP/ASP interfaces 115, 116.

Purchased and/or rented video data files will preferably be downloaded in a copy protected format to prevent unauthorized reproduction or resale of the video data files by the customer. In addition, rented video data files will preferably be downloaded in a time sensitive format that will delete the file or make it inaccessible or unviewable after the expiration of the specified rental period. Alternatively or in addition, rented video data files may be downloaded in a format that limits the number of viewings, after which the files would be deleted or made inaccessible or unviewable. This eliminates the need for returning rented video materials and the inconvenience and potential expense associated with it. If desired, the customer may increase or renew the rental period and/or upgrade a rental to a purchase for an additional fee. This feature may be implemented in such a way that a repeat download of the video data files will be unnecessary, for example by supplying the customer with an authorization number to renew or upgrade the transaction. The system may also be configured to allow prior purchasers of a video data file to download the file again in the event of damage, loss of data corruption of the original video data file.

While the present invention has been described herein with respect to the exemplary embodiments and the best mode for practicing the invention, it will be apparent to one of ordinary skill in the art that many modifications, improvements and subcombinations of the various embodiments, adaptations and variations can be made to the invention without departing from the spirit and scope thereof.

What is claimed is:

1. A multitiered video-on-demand system configured for high speed downloading of video data files with fault tolerance and resistance to data corruption, comprising:

a first system tier including:

a first generation video data storage unit for storing original video data files;

wherein the first system tier is configured to not be remotely accessible by customers of the video-on-demand system;

a second system tier including:

a second generation video data storage unit for storing second generation video data files sorted by category and classified in indexed master files;

a high speed data link between the first generation video data storage unit and the second generation video data storage unit, the high speed data link being configured to allow high speed downloading of video data files from the first generation video data storage unit to the

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second generation video data storage unit and to prevent uploading of data from the second generation video data storage unit to the first generation video data storage unit, thus resisting data corruption of the original video data files on the first generation video data storage unit;

an error detection system for monitoring the downloading of second generation video data files from the first generation video data storage unit to the second generation video data storage unit and for errors in the second generation video data files, the error detection system being configured to stop the downloading of a second generation video data file if an error is detected and to start the downloading over from the last point where the second generation video data file was known to be not corrupted, the error detection system being further configured to selectively initiate the video-on-demand system to restore the second generation video data file on the second generation video data storage unit from the original video data files on the first generation video data storage unit if repeated errors are detected in the downloading of the second generation video data file;

wherein the second system tier is configured to not be remotely accessible by customers of the video-on-demand system;

a third system tier including:

a remotely accessible computer server configured for accessing the video data files, creating temporary video data files and downloading the temporary video data files for storage and viewing on a customer's video playing device;

a high speed data link between the second generation video data storage unit and the remotely accessible computer server, the high speed data link being configured to allow high speed downloading of video data files from the second generation video data storage unit to the remotely accessible computer server and to prevent uploading of data from the remotely accessible computer server to the second generation video data storage unit, thus resisting data corruption of the second generation video data files on the second generation video data storage unit; and

an error detection system for monitoring the downloading of temporary video data files from the remotely accessible computer server and for detecting errors in the temporary video data files, the error detection system being configured to stop the downloading of a temporary video data file if an error is detected and to start the downloading over from the last point where the temporary video data file was known to be not corrupted, the error detection system being further configured to initiate the video-on-demand system to restore the temporary video data file on the remotely accessible computer server from the second generation video data files on the second generation video data storage unit if repeated errors are detected in the downloading of the temporary video data file;

wherein only the third system tier is configured to be remotely accessible by customers of the video-on-demand system.

2. The video-on-demand system of claim 1, further comprising:

a back-up first generation video data storage unit for storing back-up original video data files.

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3. The video-on-demand system of claim 1, further comprising:

a back-up second generation video data storage unit for storing back-up video data files.

4. The video-on-demand system of claim 1, further comprising:

at least one video data storage unit for storing versions of the video data files in a specified video display format.

5. The video-on-demand system of claim 4, further comprising:

a back-up video data storage unit for storing back-up copies of the versions of the video data files in the specified video display format.

6. The video-on-demand system of claim 4, further comprising:

a second video data storage unit for storing a second version of the video data files in a second specified video display format.

7. The video-on-demand system of claim 1, wherein the remotely accessible computer server is configured for downloading the temporary video data files to the customer's video playing device via an Internet Service Provider.

8. The video-on-demand system of claim 1, wherein the remotely accessible computer server is configured for downloading the temporary video data files to the customer's video playing device via a wireless Internet Service Provider.

9. The video-on-demand system of claim 1, wherein the remotely accessible computer server is configured for downloading the temporary video data files to the customer's video playing device in a compressed data format.

10. The video-on-demand system of claim 1, further comprising:

a first data input station configured for uploading original video data of movies or other video programs from their original storage medium to a video data capture computer.

11. The video-on-demand system of claim 10, further comprising:

a second data input station configured for uploading original video data of movies or other video programs from electronic data format to the video data capture computer.

12. A multitiered video-on-demand system configured for high speed downloading of video data files with fault tolerance and resistance to data corruption, comprising:

a first system tier including:

a first data input station configured for uploading original video data of movies or other video programs from their original storage medium;

a second data input station configured for uploading original video data of movies or other video programs from electronic data format;

a video data capture computer for converting the original video data to original video data files of a selected data storage format;

a first generation video data storage unit for storing the original video data files;

a back-up first generation video data storage unit for storing back-up original video data files;

a high speed data link between the first generation video data storage unit and the back-up first generation video data storage unit configured to allow high speed transfer of video data files from the first generation video data storage unit to the back-up first generation video data storage unit and to allow high speed transfer of video data files from the back-up first generation video

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data storage unit to the first generation video data storage unit to refresh or restore the original video data files if data corruption is detected;

wherein the first system tier is configured to not be remotely accessible by customers of the video-on-demand system;

a second system tier including:

a second generation video data storage unit for storing second generation video data files sorted by category and classified in indexed master files;

a high speed data link between the first generation video data storage unit and the second generation video data storage unit, the high speed data link being configured to allow high speed downloading of video data files from the first generation video data storage unit to the second generation video data storage unit and to prevent uploading of data from the second generation video data storage unit to the first generation video data storage unit, thus resisting data corruption of the original video data files on the first generation video data storage unit;

a back-up second generation video data storage unit for storing back-up second generation video data files sorted by category and classified in indexed master files;

a high speed data link between the second generation video data storage unit and the back-up second generation video data storage unit configured to allow high speed transfer of video data files from the second generation video data storage unit to the back-up second generation video data storage unit and to allow high speed transfer of video data files from the back-up second generation video data storage unit to the second generation video data storage unit to refresh or restore the second generation video data files if data corruption is detected;

an error detection system for monitoring the downloading of second generation video data files from the first generation video data storage unit to the second generation video data storage unit and for second-generation errors in the temporary video data files, the error detection system being configured to stop the downloading of a second generation video data file if an error is detected and to start the downloading over from the last point where the second generation video data file was known to be not corrupted, the error detection system being further configured to selectively initiate the video-on-demand system to restore the second generation video data file on the second generation video data storage unit from the first generation video data files on the first generation video data storage unit or from the back-up second generation video data files on the back-up second generation video data storage unit if repeated errors are detected in the downloading of the second generation video data file;

a first video data storage unit for storing a first version of the video data files in a first specified video display format;

a back-up first video data storage unit for storing back-up copies of the versions of the video data files in the first specified video display format;

a second video data storage unit for storing a second version of the video data files in a second specified video display format;

a back-up second video data storage unit for storing back-up copies of the versions of the video data files in the second specified video display format;

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wherein the second system tier is configured to not be remotely accessible by customers of the video-on-demand system;

a third system tier including:

a first remotely accessible computer server configured for accessing the video data files in the second generation video data storage unit, the first video data storage unit and/or the second video data storage unit, creating temporary video data files and downloading the temporary video data files via an Internet Service Provider for storage and viewing on a customer's video playing device;

a high speed data link between the second generation video data storage unit and the first remotely accessible computer server, the high speed data link being configured to allow high speed downloading of video data files from the second generation video data storage unit to the first remotely accessible computer server and to prevent uploading of data from the first remotely accessible computer server to the second generation video data storage unit, thus resisting data corruption of the second generation video data files on the second generation video data storage unit;

a second remotely accessible computer server configured for accessing the video data files in the second generation video data storage unit, the first video data storage unit and/or the second video data storage unit, creating temporary video data files and downloading the temporary video data files via a wireless Internet Service Provider for storage and viewing on a customer's video playing device;

a high speed data link between the second generation video data storage unit and the second remotely accessible computer server, the high speed data link being configured to allow high speed downloading of video data files from the second generation video data storage unit to the second remotely accessible computer server and to prevent uploading of data from the second remotely accessible computer server to the second generation video data storage unit, thus resisting data corruption of the second generation video data files on the second generation video data storage unit; and

an error detection system for monitoring the downloading of temporary video data files from the first and second remotely accessible computer servers and for detecting errors in the temporary video data files, the error detection system being configured to stop the downloading of a temporary video data file if an error is detected and to start the downloading over from the last point where the temporary video data file was known to be not corrupted, the error detection system being further configured to initiate the video-on-demand system to restore the temporary video data file on the first and/or second remotely accessible computer servers from the second generation video data files on the second generation video data storage unit if repeated errors are detected in the downloading of the temporary video data file;

wherein only the third system tier is configured to be remotely accessible by customers of the video-on-demand system.

\* \* \* \* \*

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : 7,254,622 B2  
APPLICATION NO. : 09/738425  
DATED : August 7, 2007  
INVENTOR(S) : Tetsuya Nomura

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, item [76] Inventors: should read

--Tetsuya Nomura.--

Signed and Sealed this

Twentieth Day of November, 2007



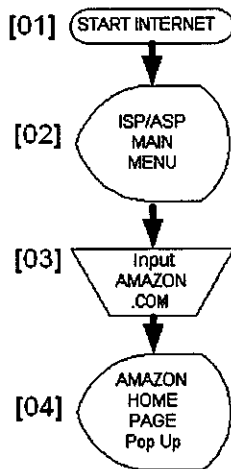
JON W. DUDAS  
Director of the United States Patent and Trademark Office



# EXHIBIT 02

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Case\_No\_C11\_01210\_Amazon\_Revised\_A\_110412\_01



[01] Viewers/Users from Fig.1 (125 ~ 137)

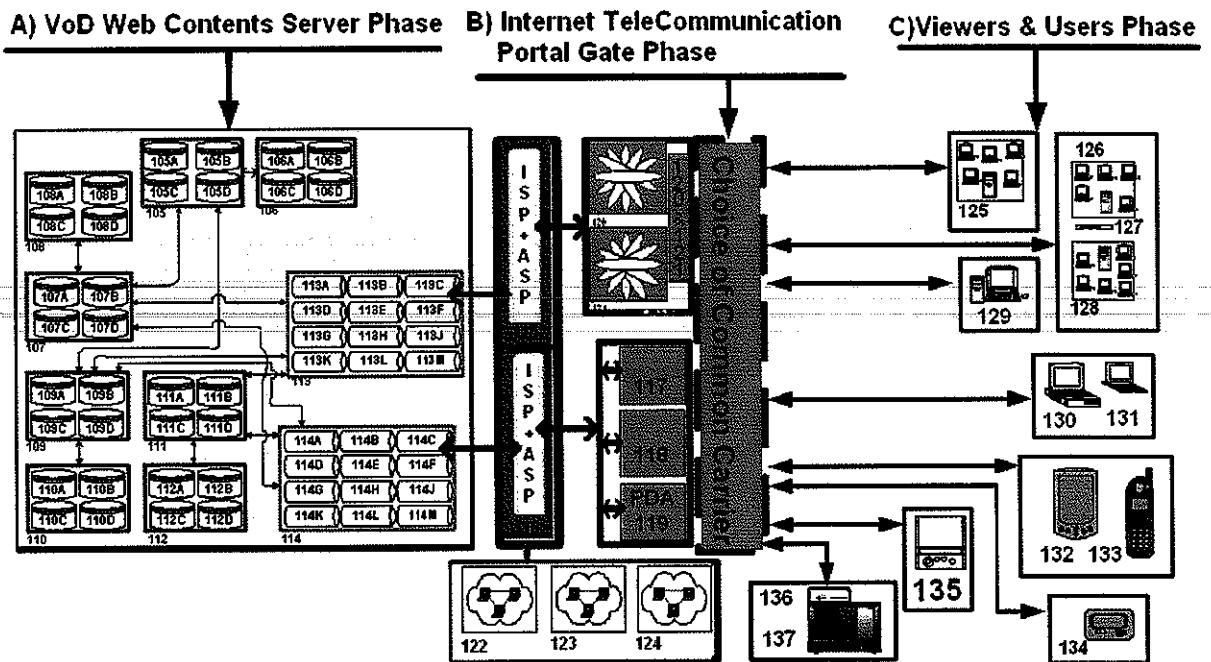
[02]

Choice of telecommunication carrier (like Comcast, AT&T, Verizon, WiFi, StarbucksCafe and so on. (Fig.1 (120 and 121)+(118 and 119)  
 After connected to Internet. You can get ISP portal gate main menu, which is Fig.1 Box 115 or Box 116 via backbone service provider (Fig.1 (120 and 121)+(118 and 119)

In the absence of Box 115 or Box 116, You can not cross the bridge to Video contents remote accessible server (Fig.1 Box 113 and 114).

[03] Input Amazon Dot Com in locator box at menu bar is Box 115 or 116.

[04] Click mouse at Amazon Instant Video or Picture spot in Home Page and Selected video or movie shows in screen from Box 113 or Box 114.

Video-on-demand system What is claimed is: Distribution Layer Modules

# EXHIBIT 03

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## EXHIBIT 04

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 10 International  
 11 Kids & Family  
 12 Romance  
 13 Science Fiction  
 14 > All Genres  
 15  
 16 Featured Channels  
 17 ABC  
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- *Modern Family, Monday Endings*
- *Arrow, Wives*

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NBC

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- *30 Rock, Parks & Recreation*
- *Parenthood, The Biggest Loser*

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- *Supernatural, Smallville*
- *One Tree Hill, Nikita*

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HBO

- *True Blood, The Wire*
- *The Sopranos*
- *Big Love, Deadwood*

[All HBO Shows](#)



Showtime

- *Caster, Weeds*
- *Hurricane Jack, The Tudors*
- *The L Word, Californication*

[All Showtime Shows](#)



FX

- *Sons of Anarchy, Justified*
- *It's Always Sunny in Philadelphia*
- *Lights Out, Damages*



Syfy

- *Being Human, Ghost Hunters*
- *Eureka, Marvel's Quantum Kitchen*
- *Warehouse 13, Battlestar*



USA

- *In Plain Sight, Burn Notice*
- *Psych, White Collar*
- *Royal Pains, Early Legal*

[All USA Shows](#)



7. Paul Simon Pegg  
Amazon Instant Video  
\$3.99



8. Your Highness  
Danny McBride  
Amazon Instant Video  
\$3.99



9. Drive Angry  
Nicolas Cage  
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\$3.99



10. Lincoln Lawyer  
Matthew McConaughey  
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2. *Scream 4*
3. *K-11: First Class*
4. *Requiem*
5. *The 5th Quarter*
6. *In A Better World*
7. *The Devil's Teardrop*
8. *DCU Batman Year One - MFV*
9. *Breaking The Press*
10. *Sesame Street: Elmo's Music Magic*

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## Recently Viewed Items



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Article Discussion Read Edit Search

## Amazon.com

From Wikipedia, the free encyclopedia

### Amazon.com, Inc.


(NASDAQ: AMZN ⓘ) is a US-based multinational electronic commerce company. Headquartered in Seattle, Washington, it is the world's largest online retailer,<sup>[3]</sup> with nearly three times the Internet sales revenue of the runner up, Staples, Inc., as of January 2010.

Jeff Bezos founded Amazon.com, Inc. in 1994 and the site went online in 1995. The company was originally named Cadabra, Inc., but the name was changed when it was discovered that people sometimes heard the name as "Cadaver". The name Amazon.com was chosen because the Amazon River is one of the largest rivers in the world and so the name suggests large size, and also in part because it starts with "A" and therefore would show up near the beginning of alphabetical lists. Amazon.com started as an online bookstore, but soon diversified, selling DVDs, CDs, MP3 downloads, computer software, video

### Amazon.com, Inc.

**amazon.com**®

<b>Type</b>	Public
<b>Traded as</b>	NASDAQ: <span>AMZN</span> ⓘ NASDAQ-100 Component S&P 500 Component
<b>Founded</b>	1994
<b>Founder</b>	Jeff Bezos
<b>Headquarters</b>	Seattle, Washington, U.S.
<b>Area served</b>	Worldwide
<b>Key people</b>	Jeff Bezos (Chairman, President & CEO)
<b>Industry</b>	Online shopping Cloud computing
<b>Products</b>	Amazon.com Zappos Amazon Studios Amazon Web Services A2Z Development A9.com Alexa Internet Audible.com Endless.com IMDb Kindle Lovefilm Woot
<b>Revenue</b>	<span>▲</span> US\$ 34.204 billion (2010) <sup>[1]</sup>
<b>Operating income</b>	<span>▲</span> US\$ 1.406 billion (2010) <sup>[1]</sup>

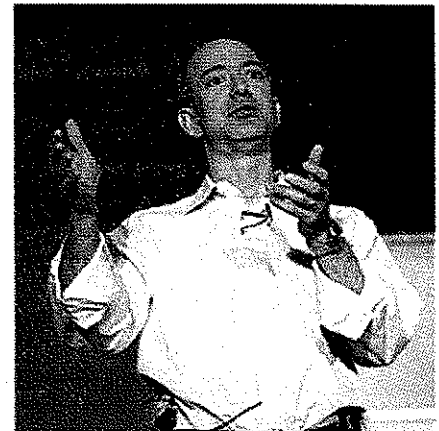
1	Български	games, electronics, apparel,	<b>Net income</b>	▲ US\$ 1.152 billion (2010) <sup>[1]</sup>
2	Bahasa Indonesia	furniture, food, and toys.	<b>Total assets</b>	▲ US\$ 18.797 billion (2010) <sup>[1]</sup>
3	Íslenska	Amazon has established	<b>Total equity</b>	▲ US\$ 6.864 billion (2010) <sup>[1]</sup>
4	Italiano	separate websites in Canada,	<b>Employees</b>	33,700 (2010) <sup>[1]</sup>
5	עברית	the United Kingdom, Germany,	<b>Website</b>	amazon.com 
6	Lietuvių	France, Italy, Austria, Japan,	<b>Alexa rank</b>	17 (August 2011) <sup>[2]</sup>
7	Magyar	and China. It also provides	<b>Type of site</b>	E-commerce
8	Македонски	international shipping to certain	<b>Advertising</b>	Web banners
9	മലയാളം	countries for some of its		Videos
10	Bahasa Melayu	products.	<b>Available in</b>	English, Japanese, German,
11	Nederlands		<b>Launched</b>	French, Italian & Chinese
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## History

[edit]

Amazon was founded in 1995,<sup>[4]</sup> spurred by what Bezos called "regret minimization framework", his effort to fend off regret for not staking a claim in the Internet gold rush.<sup>[5]</sup> Company lore says Bezos wrote the business plan while he and his wife drove from New York to Seattle,<sup>[6]</sup> although that account is disputed. Bezos flew from New York to Texas, where he picked up a car from a family member, and then drove from Texas to Seattle.



Jeff Bezos, the founder of Amazon.com 

The company began as an online bookstore,<sup>[7]</sup> while the largest brick-and-mortar bookstores and mail-order

catalogs for books might offer 200,000 titles, an online bookstore could offer more. Bezos named the company "Amazon" after the world's largest river.<sup>[8]</sup> Since 2000, Amazon's logotype is an arrow leading from A to Z, representing customer satisfaction (as it forms a smile); a goal was to have every product in the alphabet.<sup>[9]</sup>

Amazon was incorporated in 1994, in the state of Washington. In July 1995, the company began service and sold its first book on amazon.com - Douglas Hofstadter's *Fluid Concepts and Creative Analogies: Computer Models of the Fundamental Mechanisms of Thought*.<sup>[10]</sup> In 1996, it was reincorporated in Delaware. Amazon issued its initial public offering of stock on May 15, 1997, trading under the NASDAQ stock exchange symbol **AMZN**, at an IPO price of US\$18.00 per share (\$1.50 after three stock splits in the late 1990s).

Barnes and Noble filed a lawsuit on 12 May 1997, alleging that Amazon's claim to be "The world's largest bookstore" was false. They asserted "[It] isn't a bookstore at all. It's a book broker." The suit was later settled out of court. Amazon continued

to call itself "The world's largest bookstore."<sup>[11]</sup> This was followed by Walmart filing suit on 16 October 1998, alleging that Amazon had stolen trade secrets by hiring former Walmart executives. Although this suit was settled out of court, it led to work restrictions and reassignment of the former Walmart executives.<sup>[11]</sup>

Amazon's initial business plan was unusual: the company did not expect a profit for four to five years. Its "slow" growth provoked stockholder complaints that the company was not reaching profitability fast enough. When the dot-com bubble burst, and many e-companies went out of business, Amazon persevered, and finally turned its first profit in the fourth quarter of 2001: \$5 million or 1¢ per share, on revenues of more than \$1 billion, but the modest profit was important in demonstrating the business model could be profitable. In 1999, *Time* magazine named Bezos Person of the Year, recognizing the company's success in popularizing online shopping.

### Acquisitions

[edit]

- 1998: Bookpages.co.uk,<sup>[12]</sup> a UK online book retailer, which became Amazon UK on October 15, 1998.<sup>[13]</sup>
- 1999: Internet Movie Database (IMDb);<sup>[14]</sup> Cambridge, Massachusetts-based PlanetAll, a reminder service; Sunnyvale-based Junglee.com, an XML-based data mining startup;<sup>[15]</sup> Alexa Internet, Accept.com, and Exchange.com<sup>[16]</sup>
- 2003: online music retailer CD Now.<sup>[17]</sup>
- 2004: Joyo.com, a Chinese e-commerce website.<sup>[18]</sup>
- 2005: BookSurge,<sup>[19]</sup> a print on demand company, and Mobipocket.com, an eBook software company.<sup>[20][21]</sup> CreateSpace.com (formerly CustomFix), a Scotts Valley, California-based distributor of on-demand DVDs.<sup>[22]</sup> CreateSpace has since expanded to include on-demand books, CDs, and video.
- 2006: Shopbop, a Madison, Wisconsin-based retailer of designer clothing and accessories for women.<sup>[23]</sup>
- 2007: dpreview.com, a London-based digital photography review website; Brilliance Audio, the largest independent publisher of audiobooks in the United States.<sup>[24]</sup>
- 2008: Audible.com; Fabric.com;<sup>[25]</sup> Box Office Mojo;<sup>[26]</sup> AbeBooks;<sup>[27]</sup> Shelfari;<sup>[28]</sup> (including a 40% stake in LibraryThing and whole ownership of Bookfinder.com, Gojaba.com, and FilZ); Reflexive Entertainment,<sup>[29]</sup> a casual video game development company.
- 2009: Zappos,<sup>[30]</sup> an online shoe and apparel retailer<sup>[31]</sup> Lexcycle<sup>[32]</sup>
- 2010: Touchco,<sup>[33]</sup> Woot,<sup>[34]</sup> Quidsi, Buyvip, Amie Street.
- 2011: Lovefilm,<sup>[35]</sup> The Book Depository<sup>[36]</sup>

**Investments**

[edit]

- 2008: Engine Yard, a Ruby-on-Rails platform-as-a-service (PaaS) company.<sup>[37]</sup>
- 2010: LivingSocial, a local deal site.<sup>[38]</sup>

**Spinoffs**

[edit]

- 2004: A9.com, a company focused on researching and building innovative technology.<sup>[39]</sup>
- 2004: Lab126, developers of integrated consumer electronics such as the Kindle.
- 2007: Endless.com, an e-commerce brand focusing on shoes.<sup>[40]</sup>

**Merchant partnerships**

[edit]

The website CDNOW is powered and hosted by Amazon. Until June 30, 2006, typing ToysRUs.com into a browser would similarly bring up amazon.com's Toys & Games tab; however, this relationship was terminated as the result of a lawsuit.<sup>[41]</sup> Amazon also hosted and ran the website for Borders bookstores, but this ceased in 2008.<sup>[42]</sup>

Amazon.com powers and operates retail web sites for Target, Sears Canada, Benefit Cosmetics, bebe Stores, Timex, Marks & Spencer, Mothercare, and Lacoste. For a growing number of enterprise clients, currently including the UK merchants Marks & Spencer, Benefit Cosmetics' UK entity, e deals.com, and Mothercare, Amazon provides a unified multichannel platform where a customer can seamlessly interact with some people that they call the retail web site, standalone in-store terminals, or phone-based customer service agents. Amazon Web Services also powers AOL's Shop@AOL.

**Locations**

[edit]

Amazon.com has offices, fulfillment centers, customer service centers and software development centers across North America, Latin America, Europe and Asia.<sup>[43]</sup>

**Headquarters**

[edit]

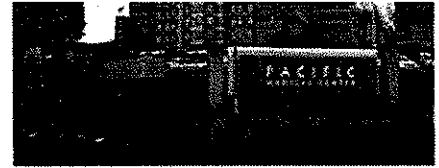
The company's global headquarters are located in Seattle's South Lake Union neighborhood.

**Software development** [edit]



## centers

The company employs software developers in centers across the globe. While much of Amazon's software development is in Seattle, other locations include Slough (England) and Edinburgh (Scotland), Dublin (Ireland), Bangalore, Chennai, and Hyderabad (India), Cape Town (South Africa), Iași (Romania), Shibuya, Tokyo (Japan), Beijing (China), Orange County (United States), and San Francisco (United States).



amazon.com's former headquarters in the former U.S. Public Health Hospital (Merchant Marine & Indians) in Beacon Hill, Seattle.

## Fulfillment and warehousing

[edit]

Fulfillment centers are located in the following cities, often near airports. These centers also provide warehousing and order-fulfillment for third-party sellers:<sup>[49]</sup>

- North America:
  - USA: Phoenix and Goodyear, AZ; New Castle, DE; Whitestown and Plainfield, IN; Coffeyville, KS; Campbellsville, Hebron (near Cincinnati), Lexington and Louisville, KY; Fernley and North Las Vegas, NV; Nashua, NH; Carlisle, Hazleton, Allentown, Lewisberry, PA; Lexington, SC;<sup>[49]</sup><sup>[50]</sup> Chattanooga, TN; and Irving, TX<sup>[47]</sup> (between Dallas and Fort Worth); Sterling, VA; Bellevue, WA.<sup>[48]</sup>
  - Canada: Ontario, Mississauga - Canada Post facility
- Europe:
  - England: Marston Gate, near Broxborough, Bedfordshire, Peterborough, Doncaster.
  - Scotland: Gourrock, Inverclyde; Glenrothes (Fife)
  - Wales: Crymlyn Burrows, Swansea<sup>[49]</sup><sup>[50]</sup> near Jersey Marine<sup>[51]</sup>
  - France: Boigny-sur-Bionne (2000) and Saran (2007), Loiret; Montélimar, Drôme (2010)
  - Germany: Bad Hersfeld, Hesse; Leipzig, Saxony
  - Slovakia: Bratislava (2011)<sup>[52]</sup>



Amazon.co.uk warehouse, Glenrothes.

• Asia:

- Japan: Ichikawa and Yachiyo, Chiba; Sakai and Daito, Osaka; Kawagoe, Saitama
- China: Guangzhou, Suzhou, Beijing

### Closed fulfillment and warehousing locations

[edit]

These U.S. distribution centers have been closed: Red Rock, Nevada; Chambersburg, Pennsylvania; Munster, Indiana; and McDonough, Georgia.  
[53][54][55]

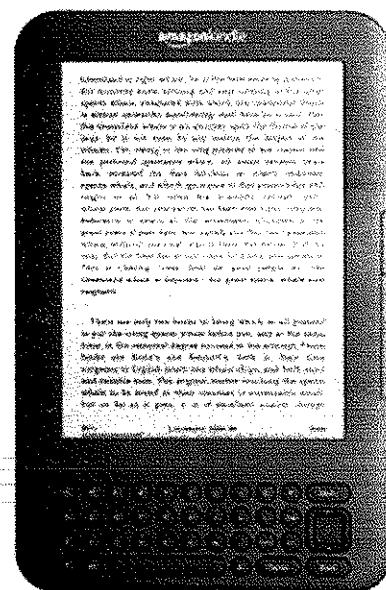
### Products and services

[edit]

Amazon product lines include books, music CDs, videotapes and DVDs, software, consumer electronics, kitchen items, tools, lawn and garden items, toys & games, baby products, apparel, sporting goods, gourmet food, jewelry, watches, health and personal-care items, beauty products, musical instruments, clothing, industrial & scientific supplies, and groceries.

The company launched amazon.com Auctions, a Web auctions service, in March 1999. However, it failed to chip away at industry pioneer eBay's large market share. amazon.com Auctions was followed by the launch of a fixed-price marketplace business, zShops, in September 1999, and the now defunct Sotheby's/Amazon partnership called *amazon.com* in November. Auctions and zShops evolved into Amazon Marketplace, a service launched in November 2000 that let customers sell used books, CDs, DVDs, and other products alongside new items. Today, Amazon Marketplace's main rival is eBay's Half.com service.

In August 2005,<sup>[56]</sup> Amazon began selling products under its own private label, "Pinzon"; the trademark applications indicated that the label would be used for textiles, kitchen utensils, and other household goods.<sup>[56]</sup> In March 2007, the company applied to expand the trademark to cover a more diverse list of goods,



Third-generation Amazon Kindle

and to register a new design consisting of the "word PINZON in stylized letters with a notched letter O whose space appears at the "one o'clock" position".<sup>[57]</sup> Coverage by the trademark grew to include items such as paints, carpets, wallpaper, hair accessories, clothing, footwear, headgear, cleaning products, and jewelry.<sup>[57]</sup> On September 2008, Amazon filed to have the name registered. USPTO has finished its review of the application, but Amazon has yet to receive an official registration for the name.

Amazon MP3, its own online music store, launched in the US on September 25, 2007, selling downloads exclusively in MP3 format without digital rights management.<sup>[58]</sup> This was the first online offering of DRM-free music from all four major record companies.<sup>[59][60][61][62]</sup>

In August 2007, Amazon announced AmazonFresh,<sup>[63]</sup> a grocery service offering perishable and nonperishable foods. Customers can have orders delivered to their homes at dawn or during a specified daytime window. Delivery was initially restricted to residents of Mercer Island, Washington, and was later expanded to several ZIP codes in Seattle proper.<sup>[64]</sup> AmazonFresh also operated pick-up locations in the suburbs of Bellevue and Kirkland from summer 2007 through early 2008.

In 2008 Amazon expanded into film production, producing the film *The Stolen Child* with 20th Century Fox.<sup>[65]</sup>

Amazon's Honor System was launched in 2001 to allow customers to make donations or buy digital content, with Amazon collecting a percentage of the payment plus a fee. The service was discontinued in 2008.<sup>[66]</sup> and replaced by Amazon Payments. Amazon launched Amazon Web Services (AWS) in 2002, which provides programmatic access to latent features on its website. Amazon also created "channels" to benefit certain causes. In 2004, Amazon's "Presidential Candidates" allowed customers to donate \$5–200 to the campaigns of 2004 U.S. presidential hopefuls. Amazon has periodically reactivated a Red Cross donation channel after crises such as the 9/11, Hurricane Katrina, and the 2004 earthquake and tsunami in the Indian Ocean. By January 2005, nearly 200,000 people had donated over \$15.7 million in the US.<sup>[67]</sup>

## Amazon Web Services

[edit]

*Main article: Amazon Web Services*

Amazon Web Services (AWS) was first launched as a public beta of Amazon Elastic Compute Cloud running Microsoft Windows Server and Microsoft SQL Server.<sup>[68]</sup> This was later expanded to several operating systems including various flavors of Linux and OpenSolaris.

In March 2006, Amazon launched an online storage service called Amazon Simple

Storage Service (Amazon S3). An unlimited number of data objects, from 1 byte to 5 terabytes in size, can be stored in S3 and distributed via HTTP or BitTorrent. The service charges monthly fees for data stored and transferred. In 2006, Amazon introduced Amazon Simple Queue Service (Amazon SQS), a distributed queue messaging service, and product wikis (later folded into Amapedia) and discussion forums for certain products using guidelines that follow standard message board conventions. Also in 2006, Amazon introduced Amazon Elastic Compute Cloud (Amazon EC2), a virtual site farm, allowing users to use the Amazon infrastructure to run applications ranging from running simulations to web hosting. In 2008, Amazon improved the service adding Elastic Block Store (EBS), offering persistent storage for Amazon EC2 instances and Elastic IP addresses, static IP addresses designed for dynamic cloud computing. Amazon introduced SimpleDB, a database system, allowing users of its other infrastructure to utilize a high reliability high performance database system. Amazon continues to refine and add services to AWS, adding such services as Scalable DNS service (Amazon Route 53), payment handling, and AWS specific APIs for their Mechanical Turk service.

### Amazon Prime

[edit]

Amazon Prime offers free two day shipping with no minimum purchase amount for a flat annual fee, as well as discounted one day shipping rates.<sup>[69]</sup> Amazon launched the program in the continental United States in 2005, in Japan, the United Kingdom and Germany in 2007, and in France (as "Amazon Premium") in 2008. In February 2011, Amazon Prime membership was expanded to include access to 5,000 instant streaming movies and TV shows at no additional cost.<sup>[70]</sup>

### Amazon Publishing

[edit]

Amazon Publishing is Amazon's publishing unit.<sup>[71]</sup> It is composed of AmazonEncore,<sup>[72]</sup> AmazonCrossing,<sup>[73]</sup> Montlake Romance,<sup>[74]</sup> Thomas & Mercer,<sup>[75]</sup> and Powered by Amazon. Additional imprints are planned.

In May 2009 Amazon launched AmazonEncore, the inaugural flagship general imprint.<sup>[76]</sup> AmazonCrossing was announced in May 2010,<sup>[77]</sup> for translated works into English. The first translated books were the French-language novel *The King of Kahel* and the German-language novel *The Hangman's Daughter* which were released in November and December 2010, respectively.<sup>[78]</sup>

In May 2011 Amazon launched two genre-focused imprints, Montlake Romance, and Thomas & Mercer. Montlake Romance is an imprint for the romance genre, "Romance is one of our biggest and fastest growing categories, particularly among Kindle customers," said Jeff Belle, vice president of Amazon Publishing.<sup>[79]</sup> Thomas & Mercer is for mystery titles.<sup>[80]</sup>

Powered by Amazon is a self-publishing platform that allows the publication of a series of books under any imprint name.<sup>[81]</sup> For example in May 2011 Seth Godin launched The Domino Project, an imprint created to publish a series of manifestos.<sup>[81]</sup> It was the inaugural Powered by Amazon imprint project.<sup>[81]</sup>

### Subscribe & Save

[edit]

Amazon's Subscribe & Save program offers a discounted price on an item (usually sold in bulk), free shipping on every Subscribe & Save shipment, automatic shipment of the item every one, two, three, or six months, with the option of canceling at any time.<sup>[82]</sup>

### Other services

[edit]

Launched in 2005, Amazon Shorts offers exclusive short stories and non-fiction pieces from best-selling authors for immediate download. By June 2007, the program had over 1,700 pieces and was adding about 50 new pieces per week. In November 2005, amazon.com began testing Amazon Mechanical Turk, an application programming interface (API) allowing programs to dispatch tasks to human processors.

In 2007 Amazon launched Amapedia, a now-defunct wiki for user-generated content to replace ProductWiki, the video on demand service Amazon Unbox, and Amazon MP3, which sells downloadable MP3s.<sup>[83]</sup> Amazon's terms of use agreements restrict use of the MP3s, but Amazon does not use DRM to enforce those terms.<sup>[84]</sup> Amazon MP3 sells music from the Big 4 record labels EMI, Universal, Warner Bros. Records, and Sony BMG, as well as independents. Prior to the launch of this service, Amazon made an investment in Arnie Street, a music store with a variable pricing model based on demand.<sup>[85]</sup> Also in 2007 Amazon launched Amazon Vine, which allows reviewers free access to pre-release products from vendors in return for posting a review, as well as payment service specifically targeted at developers, Amazon FPS.<sup>[citation needed]</sup> In November 2007, Amazon launched Amazon Kindle, an e-book reader which downloads content over "Whispernet", via the Sprint Nextel EV-DO wireless network. The screen uses E Ink technology to reduce battery consumption to provide a more legible display. As of March, 2011, the stated library numbers over 850,000 titles. In December 2007, In August 2007, Amazon launched an invitation-only beta-test for online grocery delivery. It has since rolled out in several Seattle, Washington suburbs.

In January 2008 Amazon began rolling out their MP3 service to subsidiary websites worldwide.<sup>[86]</sup> In December, 2008, Amazon MP3 was made available in the UK. In September, IMDB and amazon.com launched a Music metadata browsing site with wiki-like user contribution.<sup>[87]</sup> In November, Amazon partnered with Fisher-Price, Mattel, Microsoft and Transcend to offer products with minimal

packaging to reduce environmental impact and frustration with opening "clamshell" type packaging.<sup>[83]</sup> Amazon Connect enables authors to post remarks on their book pages to customers. WebStore allows businesses to create custom e-commerce websites using Amazon technology. Sellers pay a commission of 7 percent, including credit-card processing fees and fraud protection, and a subscription fee of \$59.95/month for an unlimited number of webstores and listings.

In July 2010 Amazon announced that e-book sales for its Kindle reader outnumbered sales of hardcover books for the first time ever during the second quarter of 2010. Amazon claims that, during that period, 143 e-books were sold for every 100 hardcover books, including hardcovers for which there is no digital edition; and during late June and early July sales rose to 180 digital books for every 100 hardcovers.<sup>[88]</sup>

In 2011, Amazon announced that it was releasing a Mac download store in order to offer dozens of games and hundreds of pieces of software for Apple computers.<sup>[89]</sup>

### Amazon.com exclusives

[edit]

An Amazon.com exclusive is a product, usually a DVD, that is available exclusively on Amazon.com. Some DVDs are produced by the owner of the film/product, while others are produced by Amazon.com, itself. The DVDs produced by Amazon are made using their CreateSpace program, in which DVDs are created once ordered using DVD-R technology. The DVDs are then shipped about two days later after being produced. Some DVDs (such as the Jersey Shore Season 1 or The Unusuals Season 1) first release their DVD on Amazon as an Amazon.com Exclusive for a limited time before being released elsewhere. On May 23, 2011 Amazon.com offered customers to download Lady Gaga's Born This Way album for \$0.99 which extremely high volume causing downloads to be delayed.<sup>[90]</sup>

### Website

[edit]

The domain *amazon.com* attracted at least 615 million visitors annually by 2008, twice the number of *walmart.com*.<sup>[91]</sup> Amazon attracts approximately 65 million customers to its U.S. website per month.<sup>[92]</sup> The company has also invested heavily on a massive amount of server capacity for its website, especially to handle the excessive traffic during the December Christmas holiday season.<sup>[93]</sup> There are different versions of the website for different countries, such as *amazon.co.uk*, *amazon.fr*, *amazon.de*, *amazon.it*, *amazon.at*, *amazon.jp*, *amazon.ca*. These sites vary in assortment and prices.

### Reviews

[edit]



## Reviews

[edit]

*See also Amazon.com controversies#Amazon Reviews*

Amazon allows users to submit reviews to the web page of each product. Reviewers must rate the product on a rating scale from one to five stars. As with most rating scales, one star stands for the product being abysmal, five stars meaning that the item is stellar. Amazon provides an optional badging option for reviewers which indicate the real name of the reviewer (based on confirmation of a credit card account) or which indicate that the reviewer is one of the top reviewers by popularity. Customers may comment or vote on the reviews, indicating whether or not they found it helpful.

## Content search

[edit]

"Search Inside the Book" is a feature which allows customers to search for keywords in the full text of many books in the catalog.<sup>[94][95]</sup> The feature started with 120,000 titles (or 33 million pages of text) on October 23, 2003.<sup>[96]</sup> There are currently about 300,000 books in the program. Amazon has cooperated with around 130 publishers to allow users to perform these searches.

To avoid copyright violations, amazon.com does not return the computer-readable text of the book. Instead, it returns a picture of the matching page, disables printing, and puts limits on the number of pages in a book a single user can access. Additionally, customers can purchase online access to some of the same books via the "Amazon Upgrade" program.

## Third-party sellers

[edit]

Amazon derives about 40 percent of its sales from affiliate marketing called "Amazon Associates" and third-party sellers who sell products on Amazon<sup>[citation needed]</sup>. Associates receive a commission for referring customers to Amazon by placing links on their websites to Amazon, if the referral results in a sale. Worldwide, Amazon has "over 900,000 members" in its affiliate programs.<sup>[97]</sup> Amazon reported over 1.3 million sellers sold products through Amazon's World Wide Web sites in 2007. Unlike eBay, Amazon sellers do not have to maintain separate payment accounts; all payments are handled by Amazon.

Associates can access the Amazon catalog directly on their websites by using the Amazon Web Services (AWS) XML service. A new affiliate product, aStore, allows Associates to embed a subset of Amazon products within, or linked to another website. In June 2010, Amazon Seller Product Suggestions was launched (rumored to be internally called "Project Genesis") to provide more transparency to sellers by recommending specific products to third party sellers to sell on Amazon. Products suggested are based on customers' browsing history.<sup>[98]</sup>



A January 2010 survey of third-party sellers by Auctionbytes.com<sup>[99]</sup> found that Amazon was 4th overall.<sup>[100]</sup> amazon.com placed second in "Profitability". Its lowest rating, but still above average, was in "Ease of Use". Sellers felt Amazon had clearly defined rules, provided a steady stream of traffic to their listings, and put less emphasis on a community component. amazon.com came in second in the Recommended Selling Venue category.

## Controversies

[edit]

*Main article: Amazon.com controversies*

Since its founding, in summary, the website Amazon.com has attracted criticism and controversy from multiple sources over its actions, such as its "1-Click patent" claims, anti-competitive actions, price discrimination, anti-unionization efforts, Amazon Kindle remote content removal, taking public subsidies and avoiding sales tax collection duties. Various decisions over whether to censor or publish content such as the WikiLeaks web site; LGBT book sales rank; and works containing libel, facilitating dogfight, cockfight, or pedophile activities have been controversial.

## Sales and use taxes

[edit]

*Main article: Amazon tax*

Amazon has been criticized for its refusal to collect sales taxes from customers in states in which it does not have a physical presence, thus giving it a comparative advantage over brick-and-mortar retailers. Possibly, such customers should pay the equivalent amount in use tax directly to their state; however, few customers do so.

## Lobbying

[edit]

Amazon.com lobbies the federal government and state governments on issues such as the enforcement of sales taxes on online sales, transportation safety, privacy and data protection, and intellectual property. According to regulatory filings Amazon.com focuses its lobbying on the US Congress, the Federal Communications Commission, and the Federal Reserve. Amazon.com spent \$450,000 on lobbying during the second quarter of 2011, \$630,000 in the first quarter of 2011, and \$500,000 during the second quarter of 2010.<sup>[101]</sup>

## Entrepreneurship by former employees

[edit]

A number of companies have been started and founded by former Amazon.com

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## Entrepreneurship by former employees

[edit]

A number of companies have been started and founded by former Amazon.com employees.<sup>[102]</sup>

- BankBazaar.com was founded by Arjun Shetty, a former senior product manager at Amazon.com
- Evri was led by Neil Roseman, a former VP at Amazon.com
- Findory was founded by Greg Linden
- Flipkart was founded by Sachin Bansal and Binny Bansal, former Amazon India employees.<sup>[103]</sup>
- Foodista was founded by Barnaby Dorfman
- Hulu is led by Jason Kilar, a former SVP at Amazon.com
- Jambool/SocialGold was co-founded by former Amazon.com engineers Vikas Gupta and Reza Hussein
- Medio Systems was founded by Brian Lent, a former Director of Information Technology at Amazon.com
- Quora was co-founded by ex-Amazon.com (and Facebook) engineer Charlie Cheever
- TeachStreet was founded by Dave Schappell, an early Amazon.com product manager
- The Book Depository was founded by Andrew Crawford, former Amazon.co.uk employee.
- TrackSimple was founded by Jon Ingalls and Ajit Banerjee
- Trusera was founded by Keith Schorsch, an early Amazonian
- Pelago was co-founded by Jeff Holden, a former SVP at Amazon.com and Darren Vengroff, a former Principal Engineer
- Wikinvest was founded by Michael Shea
- Yellowleg.com was founded by Aashish Gupta, former Amazon.com and Amazon India employee.
- Off & Away was founded by Doug Ale y, former sr. product manager, and Michael Walton, former product manager at Amazon.com

See also

[edit]

- Amazon Breakthrough Novel Award
- Amazon Standard Identification Number (ASIN)
- Online shopping
- Statistically Improbable Phrases: amazon.com's phrase extraction technique for indexing books.



Seattle portal



Companies portal



Internet portal

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